



Worksheet-1

ASSIGNMENT ON MOTION

A. Multiple choice question.

Q1. The path length travelled by a body in a given time interval is known as _____

- a) Distance b) velocity c) acceleration d) moment

Q2. What does the slope of the distance time graph give?

- a) Speed b) velocity c) acceleration d) displacement

Q3. Which of the following is true of a free -falling body ?

- a) It moves with non- uniform motion b) It has zero velocity
c) It has constant non- zero acceleration d) It has non- uniform acceleration

Q4. The physical quantity that has both magnitude and direction is known as _____

- a) Vectors b) Scalars c) Both (a) and (b) d) neither (a) or (b)

Q5. The numerical ratio of displacement to distance for a moving object is _____

- a) Always less than 1 b) always equal to 1 c) always more than 1 d) equal or less than 1

B. Very short answer type questions:-

Q6. What is another name of negative acceleration?

Q7. Under which condition is the magnitude of average velocity equal to average speed?

Q8. Give two examples of bodies having non- uniform motion.

Q9. When a body is said to be have uniform velocity?

Q10. What do the following measure in a car ?

- a) Speedometer b) Odometer

C. Short answer type questions:-

Q11. Define motion. What do you mean understand by the term uniform motion and non uniform motion ?

Explain with examples.

Q12. Define speed. What is the SI unit of speed?

Q13. a) What is meant by term acceleration? State the acceleration of SI unit?

b) Define the term uniform acceleration. Give one example of uniform accelerated motion.

Q14. A motorcyclist drives from place A to B with a uniform speed of 30km/h and returns from place B to A with uniform speed of 20 km/h . Find his average speed.

Q15. What is circular motion. Explain the uniform and non- uniform circular motion?